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Document Number 2

Entry 2 of 3

File: USPT

Nov 4, 1997

US-PAT-NO: 5684956

DOCUMENT-IDENTIFIER: US 5684956 A

TITLE: Data transmission system with parallel packet delivery

DATE-ISSUED: November 4, 1997

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | |
|--------------------|--------------|-------|-----------|---------|---|
| Billings; Roger E. | Independence | MO | 64057-329 | N/A | 4 |

APPL-NO: 8/ 338682

DATE FILED: November 14, 1994

INT-CL: [6] G06F 13/00

US-CL-ISSUED: 395/200.03; 395/200.33, 395/800, 395/200.69

US-CL-CURRENT: 709/219; 709/203, 709/239

FIELD-OF-SEARCH: 395/200.03, 395/200.15, 395/200.16, 395/200.13, 395/300, 395/308, 395/858, 395/800, 395/200.09, 395/100, 395/200.08, 395/200.69, 395/182.13, 358/335, 348/7, 348/10, 340/85.8, 370/60, 370/85.1, 370/390, 370/218

REF-CITED:

U.S. PATENT DOCUMENTS

| PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|----------------|---------------|----------------------|------------|
| <u>3245045</u> | April 1966 | Randlev | 395/200 |
| <u>3798605</u> | March 1974 | Feistel | 380/25 |
| <u>4454593</u> | June 1984 | Fleming et al. | 395/200 |
| <u>4780821</u> | October 1988 | Crossley | 395/650 |
| <u>5091849</u> | February 1992 | Davis et al. | 395/100 |
| <u>5163147</u> | November 1992 | Orita | 395/600 |
| <u>5224166</u> | June 1993 | Hartman, Jr. | 380/50 |
| <u>5253248</u> | October 1993 | Dravida et al. | 370/16 |
| <u>5262875</u> | November 1993 | Mincer et al. | 358/335 |
| <u>5355452</u> | October 1994 | Lam et al. | 395/200 |
| <u>5414837</u> | May 1995 | Kotatsu | 395/600 |
| <u>5440334</u> | August 1995 | Walters et al. | 348/6 |
| <u>5442389</u> | August 1995 | Blahut et al. | 348/7 |
| <u>5442749</u> | August 1995 | Northcutt et al. | 395/200.09 |
| <u>5442750</u> | August 1995 | Harriman, Jr. et al. | 395/200 |
| <u>5488412</u> | January 1996 | Majeti et al. | 348/10 |
| <u>5497369</u> | March 1996 | Wainwright | 370/60 |
| <u>5506962</u> | April 1996 | Orimo et al. | 395/200.03 |
| <u>5517600</u> | May 1996 | Shimokawa | 395/27 |

ART-UNIT: 232

PRIMARY-EXAMINER: An; Meng-Ai T.

ATTY-AGENT-FIRM: Hovey, Williams, Timmons & Collins

ABSTRACT:

A distributed data processing system including a data server computer coupled to a plurality of personal computers by a local area network communication path and a second data communication path independent of the local area network communication path is provided. Information stored in the data server computer is periodically transmitted over the second data communication path simultaneously to all of the personal computers in the network. The personal computers do not necessarily initiate data requests over the local area network communication path. Rather, certain preselected information is continually transmitted to all of the personal computers in broadcast fashion.

27 Claims, 3 Drawing figures

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370/218

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APS SEARCH STRATEGY

*

=> s (395 or 714)/clas and fault (p) tolerant and remote (3a) access?

```

10091 395/CLAS
14138 714/CLAS
37806 FAULT
10666 TOLERANT
2357 FAULT (P) TOLERANT
230074 REMOTE
436967 ACCESS?
4718 REMOTE (3A) ACCESS?
L1      34 (395 OR 714)/CLAS AND FAULT (P) TOLERANT AND REMOTE (3A) AC
CES
      S?

```

=> s l1 and (server (3a) control? or control (3a) server)

```

10454 SERVER
1385542 CONTROL?
1806 SERVER (3A) CONTROL?
1130300 CONTROL
10454 SERVER
1113 CONTROL (3A) SERVER
L2      6 L1 AND (SERVER (3A) CONTROL? OR CONTROL (3A) SERVER)

```

=> d 12 1-6

1. 5,659,682, Aug. 19, 1997, Scheme to determine completion of directory operations for server recovery; Murthy V. Devarakonda, et al., **714/47**; 707/8; 710/200 [IMAGE AVAILABLE]

2. 5,652,908, Jul. 29, 1997, Method and apparatus for establishing communications sessions in a remote resource control environment; Francis Archibald Brown Douglas, et al., **714/4**; 364/268, 944.61, DIG.1, DIG.2; 709/220, 228; **714/3**, **48** [IMAGE AVAILABLE]

3. 5,535,326, Jul. 9, 1996, System and method for logical console verification and feedback; Michael E. Baskey, et al., **714/4**; 364/284.4, DIG.1; 370/248 [IMAGE AVAILABLE]

4. 5,513,314, Apr. 30, 1996, **Fault tolerant** NFS server system and mirroring protocol; David R. Kandasamy, et al., **714/6**; 364/245.3, 285.3, DIG.1 [IMAGE AVAILABLE]

5. 5,113,496, May 12, 1992, Bus interconnection structure with redundancy linking plurality of groups of processors, with servers for each group mounted on chassis; Karl W. McCalley, et al., 710/126; 340/825.03, 827; 364/222.2, 222.3, 227.1, 228.3, 229, 229.5, 236.2, 237.2, 237.3, 237.8, 238, 238.3, 239, 239.8, 239.9, 240, 240.2, 241.9, 242.4, 242.94, 242.96, 248.1, 260, 260.2, 263.1, 268, 268.3, 268.7, 268.9, 271, 271.4, 282.1, 284, 284.2, 284.3, 931.43, 940.68, DIG.1; **714/4** [IMAGE AVAILABLE]

6. 4,819,159, Apr. 4, 1989, Distributed multiprocess transaction processing system and method; Dale L. Shipley, et al., **714/19**; 364/230.6, 236.3, 238.4, 238.5, 239, 239.7, 242.4, 242.6, 242.92, 242.94,

242.95, 244, 244.8, 248.1, 265, 266.3, 267, 267.2, 267.4, 268, 268.3,
268.4, 268.5, 268.7, 268.9, 269.2, 269.3, 280, 281.3, 281.8, 282.1,
282.4, DIG.1; 714/15 [IMAGE AVAILABLE]

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Searches for User *pelisca* (Count = 951)

Queries 902 through 951.

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| S # Comment Database | | Query |
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| <u>S951</u> | USPT | (((((updat\$3 near1 computer) or (retriev\$3 near1 computer)) and first near1 computer) and second near1 computer) and remote near3 interface |
| <u>S950</u> | USPT | (((((updat\$3 near1 computer) or (retriev\$3 near1 computer)) and first near1 computer) and second near1 computer) and remote near1 interface |
| <u>S949</u> | USPT | (((((updat\$3 near1 computer) or (retriev\$3 near1 computer)) and first near1 computer) and second near1 computer |
| <u>S948</u> | USPT | ((updat\$3 near1 computer) or (retriev\$3 near1 computer)) and first near1 computer |
| <u>S947</u> | USPT | (updat\$3 near1 computer) or (retriev\$3 near1 computer) |
| <u>S946</u> | USPT | retriev\$3 near1 computer |
| <u>S945</u> | USPT | updat\$3 near1 computer |